

## TENNESSEE DEPARTMENT OF AGRICULTURE Water Resources Program

September 27, 2011

Ms. Erin O'Brien TDEC L&C Annex, 6<sup>th</sup> Floor Nashville, Tennessee 37243

Dear Ms. O'Brien:

I am writing to inform you that I have reviewed the application and Nutrient Management Plan (NMP) for CAFO permit for Mr. William B. Layne, II and Mrs. Jennifer C. Layne, L&L Farm, in Gruetli-Laager, Tennessee (previous NPDES Permit NO. TN0080454). The Layne's are wishing to have the new facility permitted along with their current operation.

This letter is to confirm that the TDA has reviewed and approved the NMP. I have enclosed a copy of the Nutrient Management Plan Requirements form and the original signed and dated Notice of Intent (NOI) form, Addendum to Nutrient Management Plan, Closure Plan, NMP, and stamped Approval Stamp form for your review and final approval.

Sincerely,

Angela L. Warden CAFO Specialist

and 2 wonder

: //enclosures



## TENNESSEE DEPARTMENT OF AGRICULTURE

### **Water Resources Program**

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

Name of Owner/Operator:	me, II
Operation Name: Lt L Farm	
Address of Operation: 328 Emuis Ed. Gr	weth Lagge, TO 37339 (Existing)
Phone Number: (93) 235- 3876	County: 6,000
(931) 779-3797	,
Date application was initiated:	Date approval forwarded to TDEC:
RECEIVED	
SEP 27 2011	SEP 27 2011
without game to see the 19	
NMP/CNMP Approval Date:	Date approval received by TDEC
THE APPROVAL SHALL NOT BE CONSTRUED AS CREATING	
A PRESUMPTION OF CORRECT	
SEP 27 2011	
OPERATION OR AS WARRANTING	
THAT THE APPROVED FACILITIES WILL REACH THE DESIGNED GOALS	
TDA Reviewer's Name: _Angela Warden	
TEA Neviewel 5 NameAngela Warden	
TDA Reviewer's Signature:	Wand 9/27/11
	Date

L+L Farm

# Nutrient Management Plan Requirements

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

		1.	<b>Two maps:</b> (1.) A <u>map of your farm</u> showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied <u>and non-application buffer areas around any bodies of water</u> (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. (2.) A <u>topographic map of the farm</u> (1:24000 scale, showing 1-mile radius from farm) showing property lines.
	Í	2.	<b>Nutrient budget</b> – this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.
	ď	3.	<b>Soil test results</b> for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.
		4.	Results of <b>manure analysis</b> from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.
		<b>5</b> .	Results of the <b>Phosphorus Index</b> applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.
		6.	Statement regarding method of dead animal disposal.
		7.	Closure Plan to be implemented in the event animal production ceases on the site.
Th	_A		st two items are only required for medium-size CAFOs that manage <b>liquid manure</b> .  Documentation of <b>design of liquid waste handling system</b> . This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate numbe of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive narrative.
	Đ.	9.	The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough <b>subsurface investigation</b> . This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.
ln a	addi	itio	n to the items above, the following form(s) must accompany your application:
	Ø	No	etice of Intent form must be submitted with all applications from Class II (Medium) CAFOs
	D)	ΈP	OR PA Forms 1 and 2B must be submitted with all applications from Class I (Large) CAFOs.
		Ad	dendum to Nutrient Management Plan.





#### Termessee Department of Environment and Conservation, Division of Water Pollution Control

401 Church Street, 6<sup>th</sup> Floor L & C Annex, Nashville, TN 37243 (615) 532-0625

# CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) STATE OPERATING PERMIT (SOP) NOTICE OF INTENT (NOI)

Type of permit you are requesting: SOPCD0000 (designed	l to discharge)	SOPC00000 (no discharge)	
Application type: New Permit	□ F	ermit Reissuance	Permit Modification
If this NOI is submitted for Pe	ermit Modification or Rei	suance provide the existing pe	ermit tracking number:
OPERATION IDENTIFICATION			
Operation Name: LtL Farm			County: Grundy
Operation Location/ 270 Wichser In, Gru	etli-Largen	TN 37339-Exist	Ligititude: 35° 24'27'h
Operation Location/ Physical Address: 328 Reeves Rd, Gruet	Hi-Laager,	7N 37339-New	Longitude: <b>-8</b> 5°38'22"
Name and distance to nearest receiving water(s): Ranger	-Creek- a	nd approx. Incl	r to comme to me
If any other State or Federal Water/Wastewater Permits have be TN080454	een obtained for this sit	e, list those permit numbers	s:
Animal Type: Poultry Swine I	Dairy Beef	Other	
Number of Animals: 470,000 Number of Barns	s: 14	Name of Integrator:	Tyser Feeds, Jrv.
Type of Animal Waste Management:  (check all that apply)  Dry  Liquid			
	losed System (i.e. cove	red tank, under barn pit, etc	2.)
Attach the NMP  MP Attached  Attach the closure pl	an Closure Plan	Attached Attach a topog	graphic map Map Attached
PERMITTEE IDENTIFICATION			
Official Contact (applicant):	Title or Position:		
William B. Layne II	Owner	and a contract of the contract	
Mailing Address:	City	State:	Zip: Correspondence
456 Wichser Ln Phone number(s):	Frail:	Laager IN	3/337 □ Invoice
(931) 779-37970r (931)235-3876	abodlavne	Laager TN LOblomand.n	iet
Optional Contact:	Title or Position:	O DIBITOCI MITT	
Denniter Ci Layre	Conter		
Address:	Gruetli-La	State:	Zip: Correspondence
456 Wichser Ln	Cruetli-La	ager TN	37339 🗆 Invoice
(931) 235-5510	E-mail:		
(731)255-55/0			
APPLICATION CERTIFICATION AND SIGNATURE (must be signed	d in accordance with the	e requirements of Rule 120	0(0-4-5()5)
I certify under penalty of law that this document an			
in accordance with a system designed to assure that			
submitted. Based on my inquiry of the person or per for gathering the information, the information subm			
complete. I am aware that there are significant pen			
fine and imprisonment for knowing violations.	arries for submitte	ig faise information, i	morading the possibility of
Name and title; print or type	Signature	Pi	Date
William B. Layne II, Owne	er Elle	lin B Layon	1 9-23-1
STATE USE ONLY			7 11 27
Received Date Reviewer EFG	υ	T & E Aquatic Fauna	Tracking No.
Impaired Receiving Stream	High Quali	<del></del>	NOC Date

## **Addendum to Nutrient Management Plan:**

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

- 1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
- 2) All animals in confinement are prevented from coming in direct contact with waters of the state.
- 3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
- 6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard
- Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
- 8) An Annual Report will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

7-53-1

## rient Management Plan - Pc try

For Use by Farms **Exporting 100% of Litter Generated** 

	1. Farmer/ Producer Info	rmation				
	Is <b>ALL</b> Litter Hauled Offsite*			(Yes)	No	
	*If the answer is "No," do not com	plete this form.		Please circle	one	
	First Name:	Willi	am			]
	Last Name:	Layr	le II			]
	Farm/ Operation Name:	161	- Farm			]
	Tennessee County:	Gru	ndy			
enggapet palakin	2. Volumes and Calculation	ons			mbesser research der Colonia (Two Alexandra) findicket della som film	tui 2000 A.C.A. ansiid
	Poultry Type:		Broiler )	Pullet	Layer	
v.				circle the type(s)		
Key	ا بهن المنظمة	32,000Exst	The amount of i	litter removed fron	n a poultry house will	
Α		34,200-New		•	ure content, type and	
				d length of time bi	rds are kept in house.	
	X X Z			e summarized from	•	1
		14	•		in placing the litter	
В	Number of Houses:		amount produc	ed per bird and ass	sist in litter calculations.  Avg. Weight of Litter	- I
				Market/ Mature		
			Type of Bird	Weight (lbs)	Grow-Out	
				small (3.8 - 5 .8)	2.1	1 1
C	Number of Grow-Outs / Year:	4	Broilers	large (5.9 - 7+) 8 - 12	2.4 8	4 1
	Average Weight of Litter		Layer	8 - 12	8	-
	Produced (lbs.)/ Bird / Grow-	2.4				
	Out (see Table at right or use	7. 1				
a	your farm average if known)		Pullet	5.5	3	╝┃
	Take <b>Bolded</b> Letters in <b>K</b>	<b>(ey</b> Column Abo	ove and Below to	Assist in Calculatin	ng Values Below	
	Number of Birds per Grow-Ou	<b>t</b> = A x B =	470,000	]		
	Number of Birds Example: If $A = 2$			:		
	22,000 X 2 = 44,000 number of bird					
KEY						
E	Number of Birds per Year = A	xBxC=		2,820,000		
	Number of Birds per Year Example	e: If A = 22,000 d	and B= 2 and C=	5.5 then:	•	l
	22,000 x 2 x 5.5 =242,000 number	of birds per yea	r			
	Total Tons of Litter Produced p	per Year on the	e Farm ≂ F ⊻ D .	/ 2.000 =	73841	
	Tons of Litter Produced Example:				1000	
		.,				1
		2.000 = 254 Tons	•			
	242,000 x 2.1 lbs = 508,200 lbs. / 2 Tons of Litter Exported from F		i i	3384		

## N' ient Management Plan - Po ry

For Use by Farms
Exporting 100% of Litter Generated

### 3. Litter Handling and Storage

Litter Contents from Manure Analysis (as is basis)

Laboratory						
Name Ankan	House	Date of Analysis	Total N	$P_2O_5^a$	K <sub>2</sub> O <sup>b</sup>	Units
Agriculture Diag	1-4	5/25/11	4.57	52.2	61,0	lbs./Ton
3	•	AS- IS	71.0	57.2	41.0	lbs./Ton
						lbs./Ton

I will get an annual manure analysis and provide the results to all parties which are given or purchase litter from my farm or operation.

Whillim B Laye II 9-23-1

#### **Mortality Management**

Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using:

				_
	(Composting)	(Incineration )	Other:	W.B.C
1		please circle one		initials

#### **Closure Plan**

In the event that poultry production at this location ceases, the following will be done within 360 days:

- Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP.
- All litter in houses will be removed and spread elsewhere according to my current NMP.
- The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.
- Any dead birds in the houses at the time of closure will be disposed of according to my NMP.

Gullin & Says II 9-23-11
Signature that I have read and garee to this Closure Plan / Date signed

Notes:

N = Nitrogen

 $P_2O_5$  = Phosphorus Oxide

 $K_2O$  = Potassium Oxide

 $^{
m a}$ lf Phosphorus is expressed in analyses as Phosphorus (P), simply multiple P lbs. X 2.3 to convert to P $_{
m 2}O_{
m 5}$ .

 $^\circ$ If Potassium is expressed in analyses as Potassium (K), simply multiple K lbs. X 1.2 to convert to K $_2$ O.

## AGRICULTURAL DIAGNOSTIC LABORATORY UNIVERSITY OF ARKANSAS - FAYETTEVILLE

\*\*\*MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)

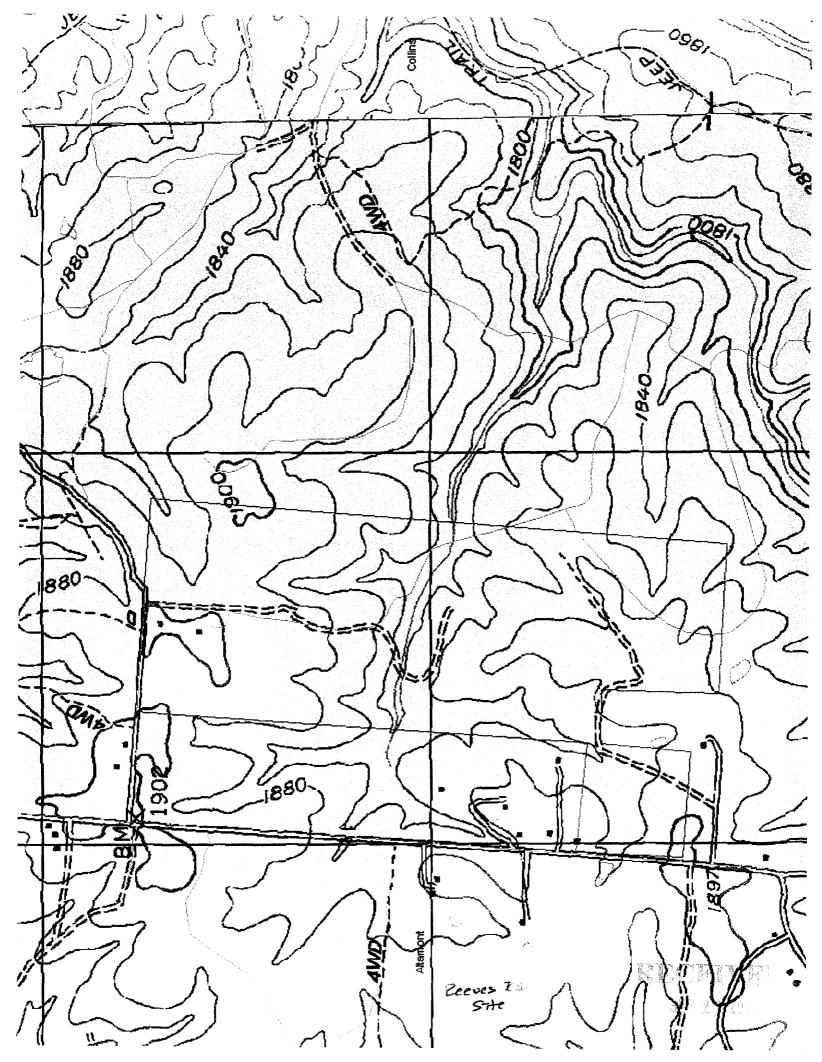
L & L FARM - BRA	ADLEY LAYNE	(report for AGRI-429)  Received in lab:	5/25/2011	
		Mailed:	6/02/2011	
GRUETLI-LAAGE	R	State,Zip:	TN 37339	
GRUNDY (TN)		CK#:	1452	
M10880				
NONE GIVEN				
poultry				
none given				
1 yr				
7.8				
12780				
22.24				
	-on dry basis-			
4.57				
1.47				
3.24				
2.61				
39.57				
	-on as-is basis-	•		
3.55				
1.14				
2.52				
2.03				
30.77				
		·		
	-ibs/ton on as-is	s basis-		
71.0				
52.2				
61.0				
40.6				
615.4				
	456 WICHSER LN GRUETLI-LAAGE GRUNDY (TN)  M10880  NONE GIVEN poultry none given none given none given 1 yr 7.8 12780 22.24  4.57 1.47 3.24 2.61 39.57  3.55 1.14 2.52 2.03 30.77	M10880  NONE GIVEN poultry none given none given none given 1 yr 7.8 12780 22.24  -on dry basis- 4.57 1.47 3.24 2.61 39.57  -on as-is basis- 3.55 1.14 2.52 2.03 30.77  -ibs/ton on as-is	### ### ##############################	### Action

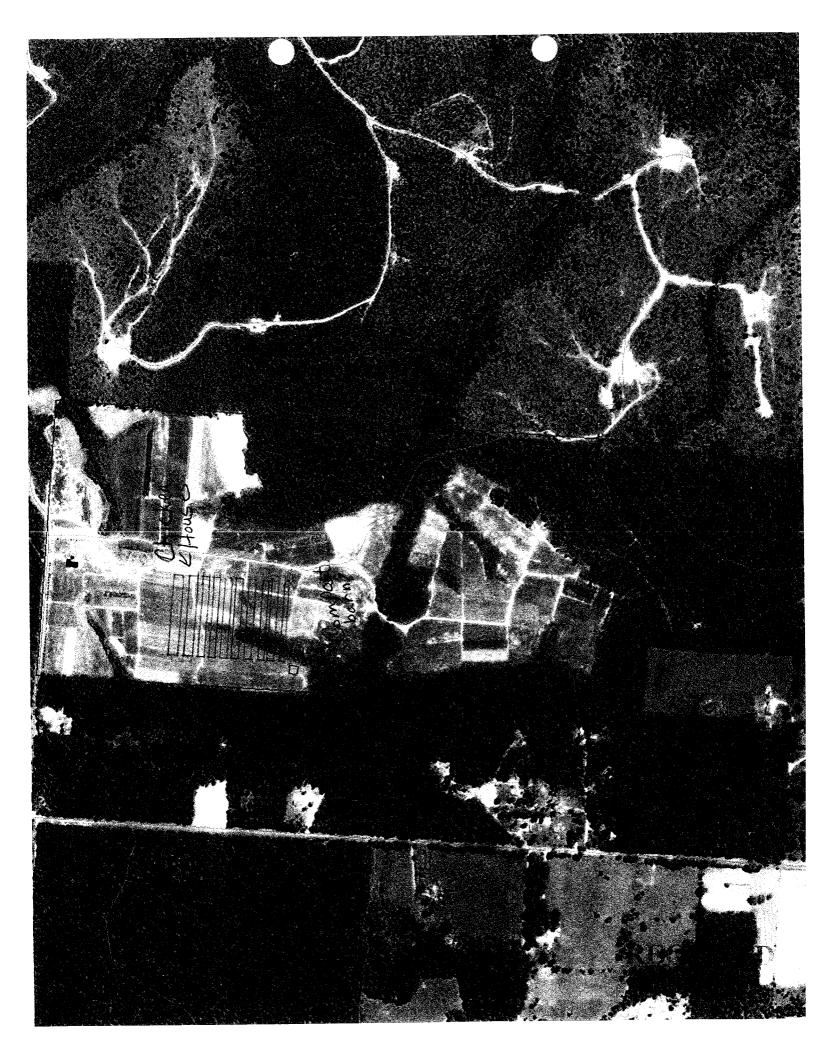
<sup>\*\*\*</sup>all analyses performed on "as-is" basis/ "dry" basis is calculated from moisture content

<sup>\*</sup>lbs/ton P2O5 = %Total P on "as-is" basis multiplied by 20\*2.29

<sup>\*</sup>lbs/ton K2O = %Total K on "as-is" basis multiplied by 20\*1.2



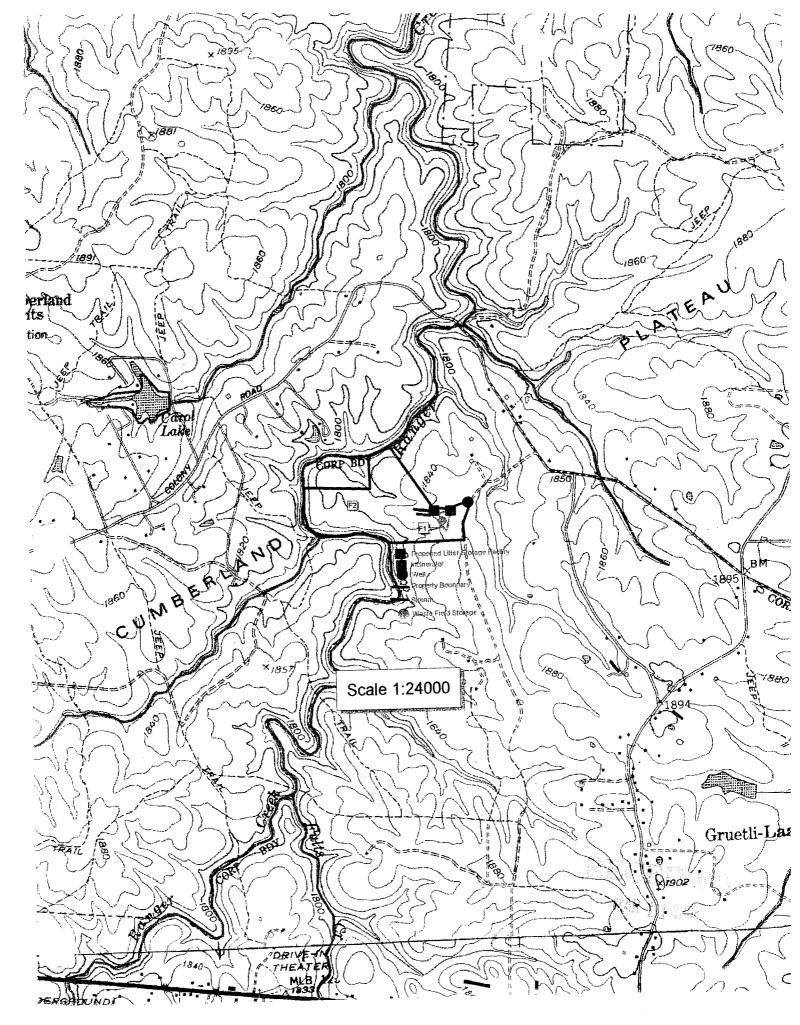


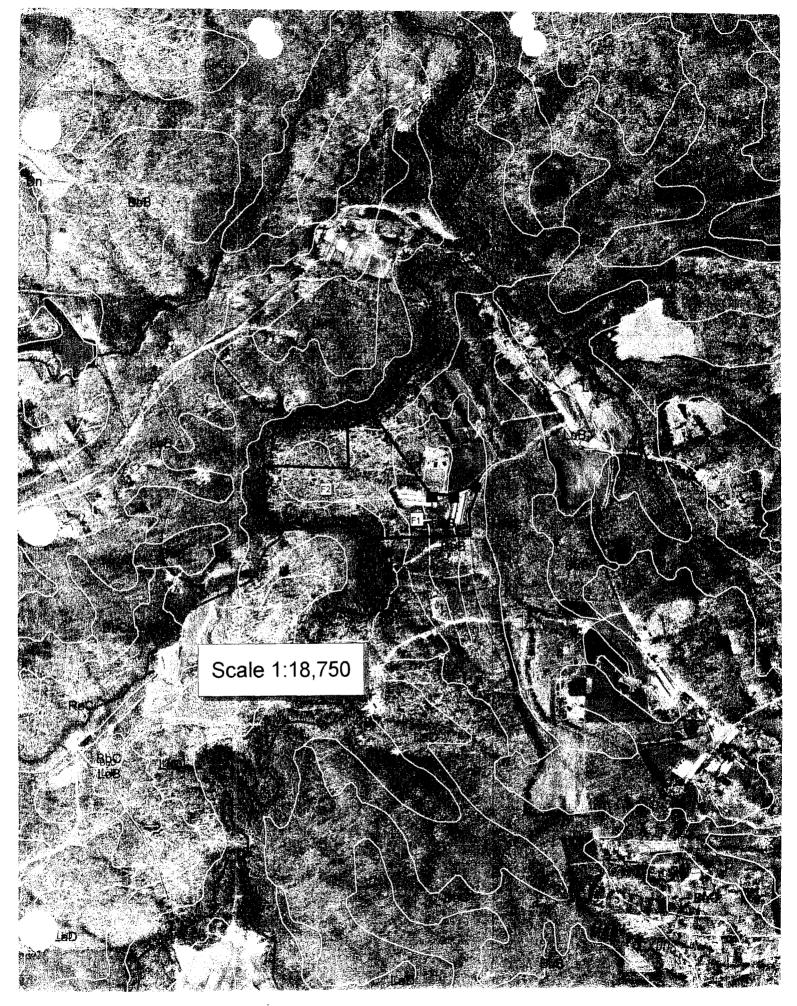




270 Wichser Ln.

1: 9524"





270 Wichser Ln.

